11/17/2004 10:36

RECEIVED **CENTRAL FAX CENTER**

Paul Hastings

3579 Valley Centre Drive · San Diego, CA 92130 telephone 858 720 2500 · facsimile 858 720 2555 · www.paulhastings.com

initials: from: facsimile: telephone: (858) 720-2555 (858) 720-2885 DLB4 Diana L. Bush, Ph.D., Esq. 45198.00014CON client name: Metabasis Therapeutics, Inc. client matter number: date: November 17, 2004 pages (with cover): 27 facsimile: telephone: to: company/office: U.S. Patent and (703) 872-9306 Trademark Office In re Application of: Group Art Unit: 1624 Qun Dang, et al. Examiner: Mark L. Berch Serial No.: 10/615,563 Filed: July 7, 2003 Customer No.: 36183 NOVEL PURINE INHIBITORS OF For: FRUCTOSE-1.6-**BISPHOSPHATASE**

Attached hereto please find:

(1) Transmittal Form (PTO/SB/21) (1 pg.); Fee Transmittal (PTO/SB/17) (1 pg.); Amendment and Remarks & Petition for Extension of Time (21 pgs.) and Terminal Disclaimer (3 pgs.)

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted (703-872-9306) to the United States Patent and Trademark Office on November 17, 2004.

Helen Lynn

RECEIVED CENTRAL FAX CENTER

NOV 1 7 2004

PTO/SB/21 (09-04)

Approved for use through 07/31/2008. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction	Act of 1995, no persons	s are required to respond to a collecti	on of information unless it displays a valid OMB control numb
		Application Number	10/615,563
TRANSMITT	AL	Filing Date	July 7, 2003
FORM	- 1_	First Named Inventor	Qun Dang et al.
		Art Unit	1624
(to be used far all correspondence	efter initial filing)	Examiner Name	Mark L. Berch
Total Number of Pages in This Submis	ssion 27	Attorney Docket Number	45198.00014.CON
	ENCL	OSURES (Check all that a	pply)
Fee Transmittal Form	□ □	Prawing(s)	After Allowance Communication to TC
Fee Attached		icensing-related Papers	Appeal Communication to Board of Appeals and Interferences
Amendment/Reply		etition	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
After Final		etition to Convert to a rovisional Application	Proprietary Information
Affidavits/declaration(s)		ower of Attorney, Revocation hange of Correspondence Address	Status Letter
Extension of Time Request		erminal Disclaimer	other Enclosure(s) (please Identify below):
Express Abandonment Reques	t R	lequest for Refund	Terminal Disclaimer (3 pgs.)
Information Disclosure Stateme	ent 🗀 S	D. Number of CD(s)	
Certified Copy of Priority	L	Landscape Table on CD	
Document(s) Response to Missing Parts/	Rema	rks	
Incomplete Application			
Response to Missing Pa under 37 CFR 1.52 or 1.53			
	20147175	ADDI 10 AAST 17 ADDI 17	
		APPLICANT, ATTORNE	Y, OR AGENT
Firm Name PAUL, HASTING	GS, JANOFSKY (& WALKER LLP	
Signature	in Bush		
Printed name Diana L. Bush, I	Ph.D., Esq.		
Date November 17, 2	004		Reg. No. 51,109
	CERTIFICA	TE OF TRANSMISSION/	MAILING
I hereby certify that this corresponder sufficient postage as first class mail in the date shown below.	nce is being facsimile n an envelope address	transmitted to the USPTO or dep sed to: Commissioner for Patent	posited with the United States Postal Service with s, P.O. Box 1450, Alexandria, VA 22313-1450 on
Signature Wiles	n fin		
Typed or printed name Helen Lyn	n		Date November 17, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

American LegalNet, Inc. www.USCourtForms.com

PTO/SB/17 (10-04v2)
Approved for use through 07/31/2008, OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL					. L	Complete If Known								
					<u> </u>	Application Number				10/615,563				
for FY 2005 Effective 10/01/2003. Patent fees are subject to annual revision.				Filing Date				July 7, 2003						
				Ŀ	First Named Inventor			Qun Dang et al.						
				[Examiner Name			Mark L. Berch						
Applicant claims small entity status. See 37 CFR 1.27				<u> </u>	Art Unit			1624						
TOTAL AM	OUNT O	F PAY	MENT (\$)1090		A	Attorney Docket No. 45198.00014.CON							
METH	OD OF	PAYM	ENT (check	all tha	t apply)				FEE C	ALCULA	TION (conf	inue	ed)	
Check Credit card Money Other None				3. AD	DITION	AL FE	ES							
Deposit Account				Large	Large Entity Small Entity									
Deposit	50-261	3				Fee	Fee	Fee	Fee		Fee Desc			Fee Paid
Account Number						Code	(\$)	Code	(\$)	•		•		ree Palu
Deposit Account						1051	130	2051		_	 late filing fe late provision 	4.5		
Name						1052	50	2052	25	or cover sh			illing les	
The Director is			`			1053	130	1053	130	Non-Englis	sh specification	חכ		<i>f</i> .
<u></u>			elow LCred or any underpa	_		1812	2,520	1812	2,520	For filing a reexamina	request for e	ex pa	nte	
	e(s) indica	ated bet	ow, except for		1 1	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action				
	FE	E CA	LCULATIO	N		1805	1,840	1805	1,840°	Requesting Examiner a	g publication action	of S	R after	
1. BASIC F	ILING F	EE				1251	110	2251	55	Extension	for reply with	in fin	st month	
1						1252	430	2252	215	Extension	for reply with	in se	cond month	
Large Entity	Smail E	ntity				1253	980	2253	490	Extension	for reply with	in thi	ird month	980
Fee Fee	Fee I	Fee	<u>Fee Descrir</u>	tion	Fee Pald	1254	1,530	2254	765	Extension	for reply with	in fo	urth month	
Code (\$)	Code	(\$)	<u></u>			1255	2,080	2255	1,040	Extension	for reply with	in fifl	th month	
1001 790	2001	395	Utility filing fee			1401	340	2401	170	Notice of Appeal				
1002 350	2002	175	Design filing fee			1402	340	2402	170	Filing a brief in support of an appeal				
1003 550	2003	275	Plant filing fee			1403	300	2403	150	Request fo	r oral hearing	3		
1004 790	2004	395	Reissue filing fee			1451	1,510	1451	1,510	Petition to Institute a public use proceeding				
1005 180	2005	80	Provisional filing fee .		1452	110	2452	55	Petition to	revive - unav	roida	ble		
1		SUB	TOTAL (1)	(\$)	0	1453	1,370	2453	685	Petition to	revive - unint	entic	nal	
2. EXTRA (LAIM F	EES	FOR UTILIT	Y AN	D REISSUE	1501	1,370	2501	685	Utility issue	fee (or reiss	ue)	, ε	•
			Extra Claims	Fee from	Fee Paid	1502	490	2502	245	Design issu	e fee			
Total Claims		-20** =	×		= O	1503	680	2503	330	Plant issue	fee			
Independent Claims		-3**=	x]= 0	1460	130	1460	130	Petitions to	the Commis	nolas	er '	
Multiple Deper	ident	,	┕───		1=	1807	50	1807	50	Processing	fee under 37	ÇF	R 1.17(q)	
Large Entity	Small E	ntity	-		· ——	1806	180	1806	180	Submission	n of Informati	on D	isclosure Stmt	
Fee Fee Code (\$)	Fee Code	Fee (\$)	Fee Descrir	stion		8021	40	8021	40	Recording property (ti	each patent a	assig	nment per	
1202 18	2202	9	<u>Fee Description</u> Claims in excess of 20		1809	790	2809	395	Filing a sul	omission afte		· · · · · ·		
1201 88	2201	44	Independent claims in excess of 3		1610	790	2810	395		. 126(a)) dditional inve (37 CFR 1.12				
1203 300	2203	150	Multiple depe	ndent d	laim, if not paid	1801	790	2801	395				nination (RCE)	
1204 88	2204	44	** Reissue independent claims over original patent			1802	800	1802	900		r expedited e application	exam	ination	
1205 18	2205	8	** Reissue da over origina			1					Disclaimer Fe			110
SUBTOTAL (2) (\$)0 *1 **or number previously paid, if greater, For Reissues, see above					Reduc	ed by Ba	sic Filing	Fee Pai	d SL	BTOTAL ((3)	(\$)	1090	
SUBMITTED											(Comple	ote /ii	applicable))	_
						Regisratio		51,10	<u>. </u>	Telephone	_	8) 720-2500		
Name (Print/Type) Diana L. Bush, Ph.D., Esq. Signature				(Attorney/		31,10	-		_					
Signature			Mary -	717	MION,						Date	No	<u>vember 17, 2</u>	004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTQ-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PAGE 3/27 * RCVD AT 11/17/2004 1:35:55 PM [Eastern Standard Time] * SVR:USPTO-EPXRF-1/6 * DNIS:8729306 * CSID:PHJW SAN DIEGO * DURATION (mm-ss):09-16

RECEIVED CENTRAL FAX CENTER

NOV 1 7 2004

Patent 45198.00014.CON1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Qun Dang et al.)	G
Serial No.:	10/615,563)	Group Art Unit: 1624
Filed:	July 7, 2003)	Examiner: Mark L. Berch
OF FR	EL PURINE INHIE RUCTOSE-1,6- IOSPHATASE	SITORS)	Customer No.: 36183
)	

11/17/2004 10:36

TERMINAL DISCLAIMER UNDER 37 C.F.R. §1.321(b)

Mail Stop Amendment **Commissioner for Patents** P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Metabasis Therapeutics, Inc., a corporation duly organized under the laws of the State of Delaware, having a principal office located at 9390 Towne Centre Drive, San Diego, California 92121, and duly represented by the undersigned, represents that it is the assignee of the full title

CERTIFICATE OF TRANSMISSION
(37 C.F.R. §1.8)

I hereby certify that this paper (along with anything referred to as being attached or enclosed) is being facsimile transmitted to the United States Patent and Trademark Office on the date shown below.

Helen Lynn	
Name of Person Transmitting Paper	
Helen Kynn	
Signature of Person Transmitting Paper	

November 17, 2004 Date of Transmission SAN/102479.1 45198.00014

Patent 45198.00014.CON1

and interest in and to the above-identified Application Serial No. 10/615,563, filed July 7, 2003, as evidenced by the deed of Assignment recorded on June 4, 1998 at Reel 009224, Frame 0348.

11/17/2004 10:36

Metabasis Therapeutics, Inc., hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on Application Serial 10/615,563 which would extend beyond the expiration date of the full statutory term of prior U.S. Patent No. 6,284,748, the term being defined in 35 U.S.C. 154 to 156. Metabasis Therapeutics, Inc. hereby agrees that any patent granted on Application Serial No. 10/615,563 shall be enforceable only for and during such period that such patent and prior U.S. Patent No. 6,284,748, are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, Metabasis Therapeutics, Inc. does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 of U.S. Patent No. 6,284,748, as presently shortened by any terminal disclaimer filed, in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States

Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

The undersigned is an attorney of record.

. PHJW SAN'DIEGO

Patent 45198.00014.CON1

The Commissioner is hereby authorized to charge Deposit Account No. 50-2613 for the fee due herein and any other fees that may become due or credit become payable during the pendency of this application.

Respectfully submitted,

Dated: NOV 17, 2004 By

John M. Lucas, Ph.D. J.D

Reg. No. 43,373

METABASIS THERAPEUTICS, INC. 9390 Towne Centre Drive, Bldg. 300 San Diego, CA 92121